BETTER ROADS

Due to Bankers' Foresight

Banks Are Doing Utmost to Provide Credit in Every Deserving Case.

"Whenever an individual or group chandise man has to have his composition of individuals representing a given share, then there is steel, motor able industry wish to roast somebody can, cotton, wheat, etc. etc., so concerning their own business they that the banker is naturally forced field.

The difficulty is every industry wants nothing but credit all the time. What the banker has to do is to divide up with those who deserve it to the very best of his ability. The commercial man has to tion to do business on a basis thave his line of credit, the meris economically safe and sane

constant aim to do a constructive job.

"Take the motor car industry for example. The banks are doing their utmost to provide credit in every practical case.

Bankers Make Industry Success.
"But the great trouble is that "But the great trouble is that to meet you more than halfway. too many folks forget there is a wide difference between credit and capital.
"If every industry were given all the credit they demand then we sure would go on the rocks fast. The difficulty is every industry ind

Improvement in Present Transmissions Great Need; Obsolete Friction Set Theoretically Best.

ber of improvements in the mech-anism of the car. That is to say under the stern lash of military Ford car, it is scarcely necessary to under the stern lash of military needs many weaknesses were discovered and remedied which, in the cordinary course of events, would have taken years to bring out. Not all these innovations have yet acall these innovations have yet ac-tually made their appearances, but the coming national shows will un-transmission has not come into the doubtedly place most of them on of no interest to us for the present

Whatever else the war may bring us, it is devoutly to be hoped that some improvement in present type of transmissions or gearsets may result. Engineers are unanimously agreed that the gearset is far the most backward of all the mechanical units that go to makeup the-modern motor car chassis. And we may reasonable hoce the most efficient that the driven disc is used to the driven disc is the driven disc is coats must come off and work shirts coats must come off and work shirts coats must come off and work shirts go on.

"The railroads are swinging back into a position of efficient service, stability and security. Every great industry, like every individual, must have an occasional flutter, but with a country as well and as sound as ours, every great factory is in a position to get into healthy condition if handled by common sense disconnected that the gears of the most efficient type of gearest, the friction set, has passed out of use in the automobile field. The friction gearest consists of two disconnected that the gears of the most efficient type of gearest.

The railroads are swinging back into a position of efficient service, stability and security. Every great industry, like every individual, must have an occasional flutter, but with a country as well and as sound as position to get into healthy common sense disconnected that the simplest and theoretically industry, like every individual, must have an occasional flutter, but with a country as well and as sound as position to get into healthy common sense in the automobile field. The friction gearest consists of two disconnected that the gears of the most efficient type of gearest.

The railroads are swinging back into a position of efficient service, stability and security. Every great factory is in a position to get more and the constant and the position of efficient service, stability and security. may reasonably hope that some im-provement in transmission design is imminent so that it will be of inof this mechanical unit in detail.

terest to examine the present types The function of the transmission earset is to change the tractive effort at the rear wheels in proportion to the effort needed. By its means the rear wheels are permitted to run slowly while the engine is running fast, etc. In general, this control over the tractive effort is obtained by meshing gears of various sizes. In operation power is generated by the 'engine, passes back through the clutch, which delivers it to a shaft, which is part of the transmission unit. On this shaft are a certain number of gears, which may be shifted into and out of engagement with other gears, mounted on another shaft, known the needs on service, for it had all the theoretical virtues that delight the heart of the engineer.

If the car owner will stop for just one moment and consider the essential construction of the conventional gearest he will realize the need for just one moment and consider the essential construction of the conventional gearest he will realize the need for just one moment and consider the essential construction of the conventional gearest he will realize the need for just one moment and consider the essential construction of the conventional gearest he will realize the need for just one moment and consider the essential construction of the conventional gearest he will realize the need for just one moment and consider the essential construction of the conventional gearest he will realize the need for just of the definition of the conventional gearest he will realize the need for just one moment and consider the essential construction of the conventional gearest he will realize the need for just as good as new. I don't care so much about the new looks, but I just as good as new. I don't care so much about the new looks, but I just as good as new. I don't care so much about the new looks, but I just as good as new. I don't care so much about the new looks respectable.

Answer: For a car in as bad shape the needs of service, for it had all the theoretical virtues that delight you do not want to go to the expect of sending the car to a regular plant as good as new. I don't care gearset is to change the tractive effort at the rear wheels in propor-

The mechanical unit that we have just described is known as the sliding selective gearset, and while it serves its purpose fairly well it uses a tremendous expenditure of effort to accomplish what is comparatively a small effect. We need a device which shell perform this service in a simpler and easier way, without the constant danger of breakage and injury that exists with the present type.

While the sliding selective gearset is the prominent type today, there are other forms in use. The next most important is the planetary gearset, used in the Ford car, which in point of mere numbers, makes the type important. The planetary gearset consists of a group of spur gears, always in mesh with a central or master gear. This master gear is known as the sun gear and the spur gears are planetary gearsfrom a resemblance of the set to the operations of the solar system. In operation the gears are forced to revolve on each other, this action being inducted by stopping the movement of the parts supporting the gears, which is accomplished by means of a sort of brake. When the gearset is the fact that it can ary gearset is the fact that it can premature failure of the unit.

The war has brought us a num- only be constructed for two speeds,

gree of efficiency.

In the truck field we find a third type of gearest, known as the constant mesh type. This variety of transmission has not come into the passenger car field as yet and so is value of ordinary hard work. Dress body knows he's on the warpath for traffic transgressors.

The great trouble is that too dynamic chieftain of the Motor Corps, is a marked man. Every-value of ordinary hard work brists for traffic transgressors.

PEARCE was coming down

discs—one driving, the other driven. In operation the driven disc is brought into contact with the driving disc, the rate of speed being determined by its distance from the center of the driving member. Obviously the arrangement gave an almost unlimited number of speeds, smoothness of action, but the great trouble was that the sets did not stand up under the strains of heavy work. At one time it enjoyed great popularity, but it gradually was

which may be shifted into and out of engagement with other gears, mounted on another shaft, known mechanically as a countershaft. These gears on the counter-shaft have varying numbers of teeth, a condition which produces the changer in tractive effort.

Need Simpler Device.

Tial construction of the conventional gearest he will realize the need for great care in operation and maintenance. Two shafts holding sets of tenance. Two shafts holding sets of ears which must be brought into engagement while the parts are spinning at a high rate of speed point to ever present danger or breaking and injury. And this is almost impossible for the amateur to attain? Any of the larger paint manufacturers carry this dull gray finish, and the whole job will cost only a moderate sum.

Question: I have been using — the parts are spinning at a high rate of speed point to ever present danger or breaking and injury. And this is almost impossible for the amateur to attain? Any of the larger paint manufacturers carry this dull gray finish, and the whole job will cost only a moderate sum.

Question: I have been using — the parts are spinning at a high rate of speed point to ever present danger or breaking and injury. And this is almost impossible for the amateur to attain? Any of the larger paint manufacturers carry this dull gray finish, and the whole job will cost only a moderate sum.

Takes Charge of Harper-Overland Company In This City.

Thomas F. Burke has been appointed sales manager of the Harper-Overland Company here. He came from California where he was manager of the Overland-Pacific Company. He has had consider able experience in the automobile

concerning their own business they invariably take it out on the banker," says Edgar Apperson, president of the Apperson Bros. Automobile Co., of Kokomo, Ind.

"To hear some people talk you would think all that bankers did was lay plans to wreck business and vision of the Amwas lay plans to wreck business and vision of the American banker. He grasped the is a native. After spending and stop commercial progress. On the face of it how abourd this is, Banks can only prosper as the country is prosperous. It is their constant aim to do a constructive constant aim to do a constructive York papers, but he gave this up

STEADY MINDS **NEED OF HOUR**

Future Prospect for Auto Field Attracts Sane

ings are valuable not only from an inspirational standpoint but in spreading industries, away the distinction from the Constant of Apperson, president of the wanted that and asked him if he wanted her son alone, it is attracting the common sense sort. Many sane business and near taking advantage of this greenstruction period and investigating the wide-opien opportunities in the motor industry. But a willingness to work and the application of brains are necessary qualification.

The commissioner J. Thilling a fliver. He told the surface of the wanted to take a matter of fact, he wrote to him and asked him if he wanted to take son alone, it is attracting the commissioners and wanted in the motor industry. But a willingness to work and the application of brains are necessary qualification to the commissioners and wanted to get one of the lowest-numbered those.

The commissioner is the manager of the motor industry. But a willingness to work and the application of brains are necessary qualification to the commissioner is and wanted to get one of the lowest-numbered to get one of the lowest-numbered the same recessary qualification to the same to the commissioner is and wanted to take and the proposal transfer in the motor industry. But a willingness to work and the application of brains are necessary qualification to the commissioner is an addressing a crowd at the Pleasant Hour Picture Pale and Philicage and Milwaukee and are next on the schedule, which covariant is the present that the demand of motorists that the acc last night said: "The general impression that the motion picture industry wasfes thousands of dollars for realistic effects is unwarranted and erroneous."

Throw Your Kensellon and inspirational standpoint but in inspirational standpoint but in these present near inspirational standpoint but in these parts, today was in court for tire repair.

Among the cities visited have budget the delight keep bis hand in the budget was in court of tire repair.

Among the cities visited have budget the feeling an

oil in my engine. This lubricant is darker than I like and a friend sug-gests that it contains an excess of carbon. I have not noticed any tendency to excessive carbonization and the lubricant seems to work all right, but I would like to have your opinion.

Answer: The make of oil mentioned in your inquiry is absolutely first class. It does run a little darker than some of the others, but the color is no indication of carbon. The only thing that will establish that is the heat test and I happen to know that this particular oil has passed heat tests with unusual suc-cess.

SALES MANAGER STOP LOOK LISTEN

JIM RING

BALLADE OF THE MODERN CHRISTMAS.

Enter the Yulcide's red and green
And gaily spangled Christmas tree.
The dolls and toy trains seepentine,
That rattled round the nursery
Are gone. The child upon my knee
Whose age does not yet bear a 'teen,
(Where is the Christmas that used to be?)
Lisps, "Santa must bring me a limousine!"

What in tarnation does this mean?

What is the child's psychology?

Can I deny my little queen
Anything that she asks of me?

This is no puerile absurdity.

Instead, it's Desire, sharp-edged and keen—
Not the Christmas prayer that used to be,
But, "Santa must bring me a limousine!"

L'Envoi.

Santa, the world moves; therefore, we Must make a gift to Geraldine To fill her modern heart with glee. Suppose we give her a limousine?

And now HARRY is reading the papers to see if JAMES K.'s name isn't mentioned in smash-up stories. So far HARRY hasn't had a chance

-Stop!-Look !-Listen!-

Connecticut avenue at a very low rate of speed the other day, when he happened to look behind him and saw a crowd of pale-faced motorists trailing along. They were afraid to go ahead of him and get pinched for speeding.

-Stop!-Look !-Listen!-

VERBUM SAP.

There is an organized campaign this mos against the gentlemen who smear greater a dust over their license tags, to conceal the

-Stop!-Look!-Listen!-OUR LITTLE AUTO ALPHABET.

No. 4-The Dust. D is for Dust,

Nursing motorists wrath. When there's lots, it gets cussed And the car gets a bath.

-Stop !- Look !- Listen !-

Harry the Hacker says: I've never yet seen a man who knew exactly his wife's disposition—and his auto's.

-Stop !- Look !- Listen !-

BOB HASKIN was selling Pierce-Arrow to an M. D. at the local agency lately, when the doc-tor found a flaw in the painting of the machine.

a mistake." At this juncture a mechanic came

up from the rear of the salesroom.

"Always kicking about painter's mistakes," he said. "You're lucky with mistakes, doc. You can always bury yours."

-Stop!-Look!-Listen!-

FOREIGN CORRESPONDENCE. Arbutus, N. H.—Achilles Blandy has been sued for divorce by his wife. Kate Curtis Blandy. Mrs. Blandy practically named Achilles' auto as co-respondent. She said in

SCHOOL MEANS

Education of Tire Repairmen 'Is Object of This Traveling School.

As an innovation in the tire field. the traveling repair school claims the latest honors. The 'school is carrying free to the vulcanizers of the country the newest developments in tire surgery. Motorists are cashing is on this in obtaining better tire repairs.

awakening general interest. The present their particular tire prob-lems for solution. Tire dealers in the citles visited are attending in

large numbers, irrespective of the make of tire they handle.

In each city, the sessions of the school are held in a centrelly located hotel easily accessible to the automobile district. There are both "D. C. NO, 1" • her petition that Achilles spent all afternoon and evening meetings.

Congressman BEN JOHNSON has of his time in the garage, and paid no attention to his family.

Tor 1921, thereby breaking a custom of his which started when the Epitaph. Arig.—"Black Mike" inspirational standpoint but in inspirational standpoint but in the garage of the conferences.

Rutland, Idaho.—Veronica Vane, a movie star, in addressing a crowd at the Pleasant Hour Picture Palace last night said: "The general impression that the motion picture impression that the motion picture industry wastes thousands of dollars for realistic effects is un-

-Stop !- Look !- Listen !-Miss MARIE HAVES rises to re-

"The Idle Rich are missing som thing good. Why don't they paint distinctive names, like those of Pullman cars, on the sides of their the auto burglar has found a way

"Imagine coming down Million-nires' Row and seeing automobiles whiri by with names like these on them: Imperator, Roderick Dhu, Olympin, Rosieracian, Athenian, Tiberian, etc.

-Stop :- Look :- Listen :-TO THE SPEEDER.

o on! Feed the gas! Throw sense to the wind! Grin as the speed-clock further around! Laugh in your folly! There's noth

You to slowness-save Duty! clatter and bound
On your journey to—where?
to hurts and to death.

to hurts and to death.

We know that you'll say, in your last, gasping breath.

When, wrecked in your auto's own wreckage, you'll lie.

"To speed is to live; and to speed it to die!"

Speed on! Be a man! Leave advice to the slow!
Why should you stop for a moment to think

That you're dangering others? One death-dealing blow

From you car puts your neck in a noose. Let that sink Into your speed-crazy mind, while you roar Onward, insisting on more speedand more!

We will hear from a ruin, smoke-wreathed, your last cry: "To speed is to live; and to speed is to die!"

"I don't like this," he announced.
"Some painter obviously has made while you may; while you may; So sneer at a caution, and let the world slide!

ing day, And strain the resources there at And strain the resources there at your side!

Make the best of your time. You're accepted by all

As one who is deaf to your conscience's call;

And the breezes will sigh, as your hearse passes by:

"To speed is to live; and to speed

"To speed is to live; and to speed is to die!"

Car owners have heard so much about guarding against the ills to which tires fall heir, that this first attempt in a national way to get at the root of much of the trouble is purpose underlying the lectures is to make better repairmen through affording them an opportunity to

Black is president of the company, and F. A. Bobbitt is treasurer and general manager.

Of all devices invented to thwart California there are now 70,000 drivauto thieves, not one can claim absolute protection. Keys, locks, rim spikes and the countless other to ply his trade in spite of them all. Well, here's the latest, and one

that is guaranteed by its inventor to prevent theft. It does not lock your ignition, nor the gear shift any other part of the car. In fact, every part can be left open and lever, nor the steering wheel, nor ready for immediate use. But as soon as the car is moved, unofficially, an alarm goes off and the hursless heavilless that the hursless heavilless that the steering the steering that the hursless heavilless that the steering that the s burgiar hasn't far to go before he's caught. The police can be let in on the secret, and any cop hearing that alarm can know the machine

that atarm can know as the lis being stolen.

The device consists of a gong hidden away in some inaccessible place beneath the engine or the toeplace beneath the engine or the toeplace beneath the sures leading place beneath the embedding board for instance, wires leading from that to a separate battery and switch. The main idea is to hide the gong and switch so the thief can't get at them.

Once the car is parked, all the owner has to do is turn on the switch and quit worrying about switch and quit worrying about possible thet. But do not forget to turn off the switch before starting, or you'll find yourself explaining it to the judge.

Death Signs Warn HARDING BOOSTS Reckless Drivers

tery at Bottom of Hill for Reckless

Will Sell Used Cars.

The B. and B. Auto Sales Com-

Courteenth street northwest, for the sale of used cars exclusively. F. S.

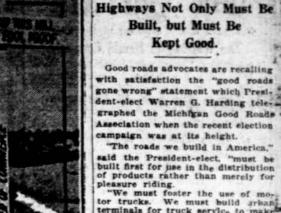
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port Notes.



of products rather than merely for pleasure riding.
"We must foster the use of mortor trucks. We must build arbant terminals for truck service to make new ties between communities and between city consumption and country production. I believe that the Federal and State governments must not only put their shoulders to the wheel to create and shoulders to the wheel to create good roads, but that they must insist upon the mainte-nance of roads in good condition. A good road gone wrong is almost worse than no road." Ernest Farr, chief of the Firestone

Ship by Truck Bureau, says he ex-pects to see the new administration at Washington create a Federal Highways Commission Treacherous highways and "dead proposed Townsend bill for the exil nen's curves" need no longer be tablishment, construction and ma tenance of a federal system of highdeath traps if a series of sign posts ways.
Such a commission, is it believed, sanctioned by the El Paso (Tex.)

Chamber of Commerce obtain merited usage.

The highway warnings take the
form of common-sense inscriptions
like this one shown. "Private Ceme-Drivers" is another sign against

When a car is embedded in mudg

or sand it can usually be pulled out by means of a bit of plank and, some stout rope. Wrap the rope, around the end of the plank in a any has opened salesrooms at 1805 slip knot and the other end aroun a spoke of the wheel. Thrust the end of the plank under the tire, turn on the power and hope for the A rope may also be passing it around a tree and fasten ing both ends to the car. A stor stick, the jack handle for instance of the rope and twisted ing their own machines and the number is being increased every day.—Goodrich Travel and Trans-

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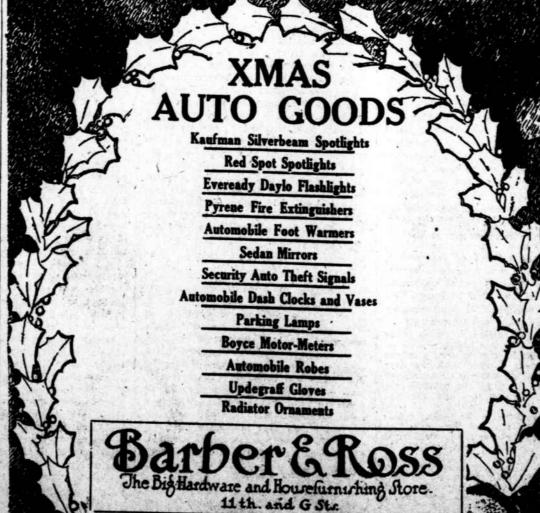
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